



PATENT
Docket No. 432722002623

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Assistant Commissioner for Patents, Washington, D.C. 20231, on July 10, 2001.

Garee A. Haney
Garee A. Haney

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of:

Gregory R. MUNDY et al.

Serial No.: 09/695,807

Filing Date: October 23, 2000

For: INHIBITORS OF PROTEASOMAL
ACTIVITY FOR STIMULATING BONE
AND HAIR GROWTH

Examiner: To Be Assigned

Group Art Unit: 1646

**INFORMATION DISCLOSURE
STATEMENT UNDER 37 C.F.R. § 1.97**

Assistant Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

Pursuant to 37 C.F.R. § 1.97 and § 1.98, Applicants submit for consideration in the above-identified application the documents listed on the attached Form PTO-1449. Copies of the documents Nos. 1, 10, 55, 63, 68 and 76, are included herewith. Copies of all other documents were previously submitted in an Information Disclosure Statement and/or Office Action, directed to the related application Serial Numbers 09/558,973, filed April 25, 2000, 09/421,545, filed October 20, 1999, 09/361,775, filed July 27, 1999, and 09/113,947, filed July 10, 1998, and accordingly, copies are not included herewith. This protocol conforms with 37 C.F.R. §1.98(d)

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and M.P.E.P. 609(A)(2). The Examiner is requested to make these documents of record. Applicants bring to the examiner's attention serial number 08/458,434, cited in the above-identified application which has since been granted and is now U.S. Patent 6,083,690. Accordingly, a copy of the granted patent is submitted herewith.

This Information Disclosure Statement is submitted:

- ☐ With the application; accordingly, no fee or separate requirements are required.
- ☒ Within three months of the application filing date or before mailing of a first Office Action on the merits; accordingly, no fee or separate requirements are required.
- ☐ After receipt of a first Office Action on the merits but before mailing of a final Office Action or Notice of Allowance.
 - ☐ A fee is required. A check in the amount of * is enclosed.
 - ☐ A fee is required. Accordingly, a Fee Transmittal form (PTO/SB/17) is attached to this submission in duplicate.
 - ☐ A Certification under 37 C.F.R. § 1.97(e) is provided below; accordingly, no fee is believed to be due.
- ☐ After mailing of a final Office Action or Notice of Allowance, but before payment of the issue fee. Accordingly, a Petition requesting consideration of the Information Disclosure Statement, an authorization to charge our deposit account, and a Certification under 37 C.F.R. § 1.97(e) are provided herein.

Applicants would appreciate the Examiner initialing and returning the Form PTO-1449, indicating that the information has been considered and made of record herein.


The information contained in this Information Disclosure Statement under 37 C.F.R. § 1.97 is to the best of my knowledge and is not to be construed as a representation

that: (i) a complete search has been made; (ii) additional information material to the examination of this application does not exist; (iii) the information, protocols, results and the like reported by third parties are accurate or enabling; or (iv) the above information constitutes prior art to the subject invention.

In the unlikely event that the transmittal letter is separated from this document and the Patent Office determines that an extension and/or other relief is required, applicant petitions for any required relief including extensions of time and authorizes the Assistant Commissioner to charge the cost of such petitions and/or other fees due in connection with the filing of this document to Deposit Account No. 03-1952 referencing 432722002623. However, the Assistant Commissioner is not authorized to charge the cost of the issue fee to the Deposit Account.

Dated: July 10, 2001

Respectfully submitted,

By: 
Peng Chen
Registration No. 43,543

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Form PTO-1449

INFORMATION DISCLOSURE CITATION
IN AN APPLICATION

(Use several sheets if necessary)

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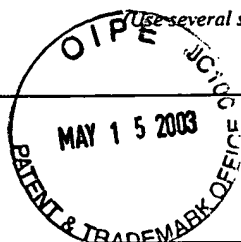
Applicant

Gregory R. MUNDY *et al.*

Filing Date October 23, 2000

Group Art Unit 1646

Mailing Date July 10, 2001



U.S. PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Name	Class	Subclass	Filing Date If Appropriate
	1.		09/096,631				June 12, 1998
	2.	8/1988	4,761,471	Urist	530	350	
	3.	1/1994	5,280,040	Labroo <i>et al.</i>	514	457	
	4.	12/1996	5,580,854	Orlowski <i>et al.</i>	514	18	
	5.	3/1998	5,728,844	Muller <i>et al.</i>	548	472	
	6.	6/1998	5,767,152	Nielsen <i>et al.</i>	514	526	
	7.	7/1998	5,780,454	Adams <i>et al.</i>	514	64	
	8.	10/1998	5,824,643	Pierce <i>et al.</i>	514	12	
	9.	6/1999	5,910,497	Durette <i>et al.</i>	514	253	
	10.	7/2000	6,083,690	Harris <i>et al.</i>	435	6	

FOREIGN PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Country	Class	Subclass	Translation YES NO
	11.	10/1990	WO 90 11366	WIPO			
	12.	3/1992	WO 92 03125	WIPO			
	13.	10/1993	WO 93 20859	WIPO			
	14.	9/1995	WO 95 24211	WIPO			
	15.	9/1995	WO 95 25533	WIPO			
	16.	12/1996	WO 96 38590	WIPO			
	17.	3/1997	WO 97 09315	WIPO			
	18.	5/1997	WO 97 15308	WIPO			
	19.	7/1997	WO 97 23457	WIPO			
	20.	10/1997	WO 97 38699	WIPO			
	21.	12/1997	WO 97 48694	WIPO			
	22.	4/1998	WO 98 17267	WIPO			
	23.	6/1998	WO 98 25460	WIPO			

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24.	1/2000	WO 0002548	WIPO
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26.	7/1999	EP 0 931 544	Europe
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	29.	Adams, J. <i>et al.</i> , "Proteasome Inhibitors: A Novel Class of Potent and Effective Antitumor Agents," CANCER RES (1999) 59:2615-2622
	30.	Adams <i>et al.</i> , "Chapter 28. Novel Inhibitors of the Proteasome and their Therapeutic Use in Inflammation," ANNUAL REPORTS IN MEDICINAL CHEMISTRY (1996) 279-288
	31.	Ahmed <i>et al.</i> , "Alopecia Universalis Associated with a Mutation in the Human Hairless Gene," SCIENCE (1998) 279:720-724
	32.	Bangham <i>et al.</i> , "Diffusion of Univalent Ions Across the Lamellae of Swollen Phospholipids," J MOL BIOL (1965) 23:238-252
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	34.	Baumeister <i>et al.</i> , "The Proteasome:Paradigm of a Self-Compartmentalizing Protease," CELL(1998) 92:367-380
	35.	Beck <i>et al.</i> , "Rapid Publication TGF- β , Induces Bone Closure of Skull Defects," J BONE MINER RES (1991) 6(11):1257-1265
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	39.	Caplan, "Mesenchymal Stem Cells" J ORTHOP RES (1991) 9:641-650
	40.	Casez <i>et al.</i> , "Dual-Energy X-Ray Absorptiometry for Measuring Total Bone Mineral Content in the

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		Filing Date October 23, 2000	Group Art Unit 1646
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		Rat: Study of Accuracy and Precision," BONE AND MINER (1994) 26:61-68	
	41.	Combaret, L. <i>et al.</i> , "Manipulation of the Ubiquitin-Proteasome Pathway in Cachexia: Pentoxifylline Suppresses the Activation of 20S and 26S Proteasoms in Muscles from Tumor-Bearing Rats," MOL BIOL REP (1999) 26:95-101	
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	45.	Ducy <i>et al.</i> "Increased Bone Formation in Osteocalcin-deficient Mice," NATURE (1996) 382:448-452	
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	47.	Elofsson <i>et al.</i> , Chemistry & Biology (1999) 6:811-822	
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	55.	Groll <i>et al.</i> , J. Am. Chem. Soc. (2000) 122:1237-1238	
	56.	Guijarro <i>et al.</i> "Lovastatin Inhibits Lipopolysaccharide-induced NF- κ B Activation in Human Mesangial Cells," NEPHROL DIAL TRANSPLANT (1996) 11:990-996	
	57.	Gupta <i>et al.</i> , "Oral Cyclosporine for the Treatment of Alopecia Areata," J AMER ACAD OF DERMATOLOGY (1990) 22(2):242-250	
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(1992) 12:103-111</td> </tr> <tr> <td>69.</td> <td>Leserman <i>et al.</i>, "Targeting to Cells of Fluorescent Liposomes Covalently Coupled With Monoclonal Antibody or Protein A," NATURE (1980) 288:602-604</td> </tr> <tr> <td>70.</td> <td>Liptay <i>et al.</i>, "Inhibition of Nuclear Factor Kappa B and Induction of Apoptosis in T-Lymphocytes by Sulfasalazine," BR J PHARMACOL (1999) 128(7):1361-1369</td> </tr> <tr> <td>71.</td> <td>Lutz, "Effects of Cyclosporin A on Hair," SKIN PHARMACOLOGY (1994) 7:101-104</td> </tr> <tr> <td>72.</td> <td>Majeska <i>et al.</i>, "Maintenance of Parathyroid Hormone Response in Clonal Rat Osteosarcoma Lines," EXP CELL RES (1978) 111:465-467</td> </tr> <tr> <td>73.</td> <td>Maupin-Furrow, J.A. <i>et al.</i>, "A Proteasome from the methanogenic Archaeon Methanosarcina thermophila," J BIOL CHEM (1995) 270:28617-28622</td> </tr> <tr> <td>74.</td> <td>Mayer <i>et al.</i>, "Vesicles of Variable Sizes Produced by a Rapid Extrusion Procedure," BIOCHIM BIOPHYS ACTA (1986) 858:161-168</td> </tr> <tr> <td>75.</td> <td>Meng <i>et al.</i>, "Epoxomicin, a Potent and Selective Proteasome Inhibitor, Exhibits In Vivo</td> </tr> </table>				58.	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	Applicant Gregory R. MUNDY <i>et al.</i>	
	Filing Date October 23, 2000	Group Art Unit 1646
	Mailing Date July 10, 2001	

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